

Light efficiency:

106 Lumen/Watt

Light quality:

CRI: 82.4

Color temperature:

3003 K

Output: 1755 lm

Peak: 8069 cd

Power: 16.6 W

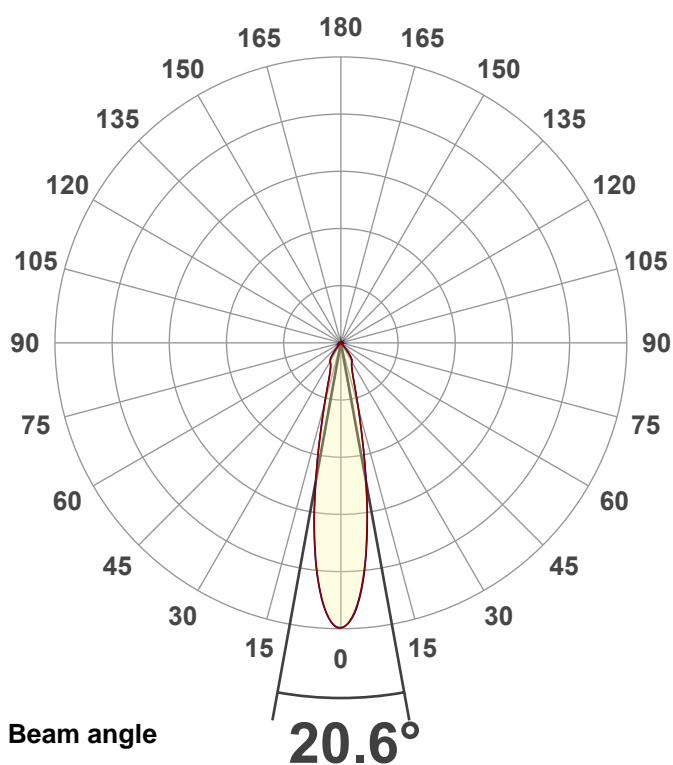
PF: 0.97



BETA-3R-SW-20LM-30K-80-20C-WH-WH

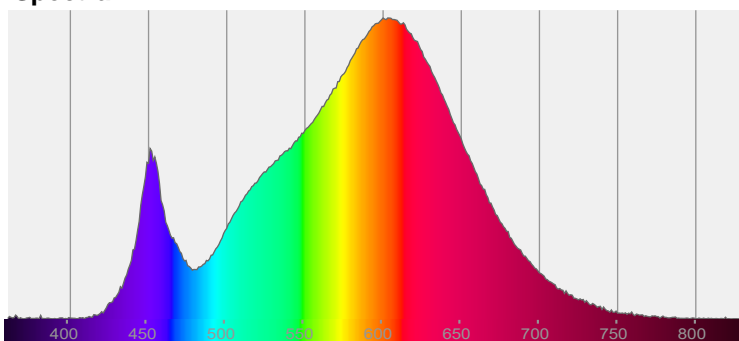
Date and time:

12/28/2022 1:58:17 PM

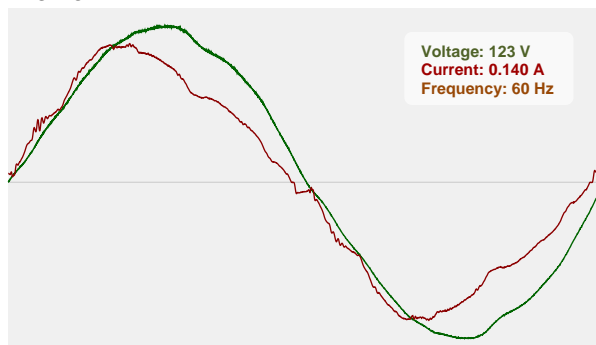


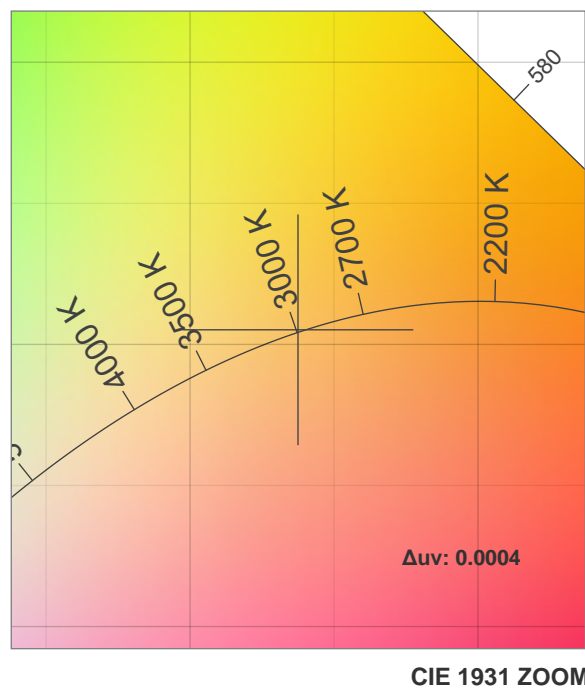
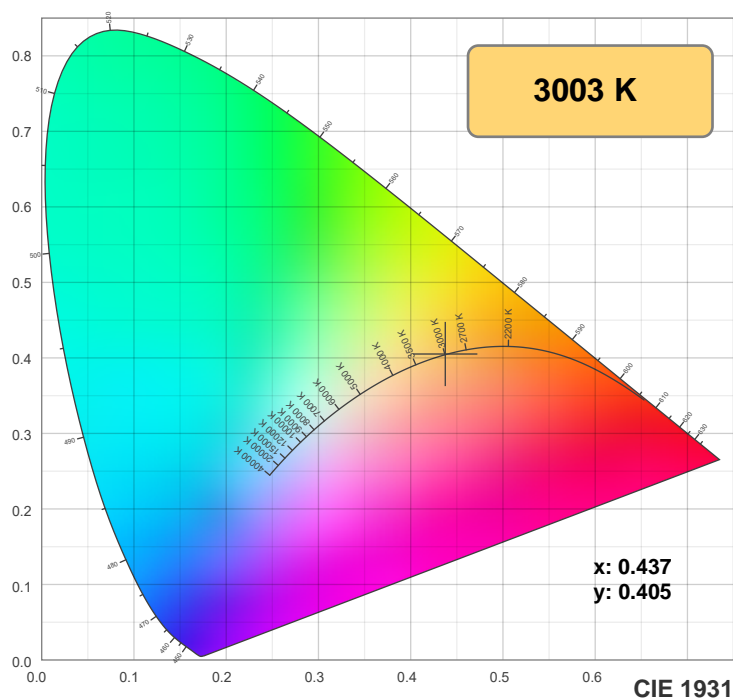
CIE 1931
x: 0.437
y: 0.405

Spectra

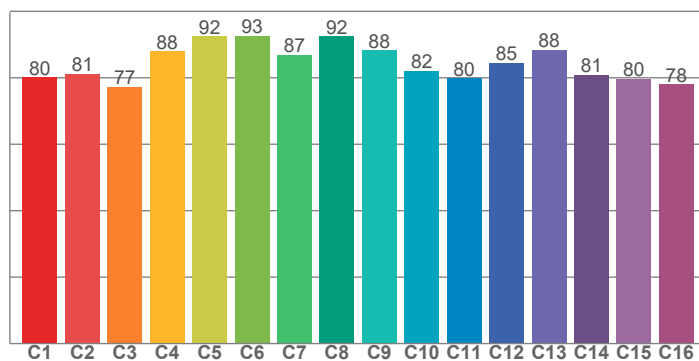


Power

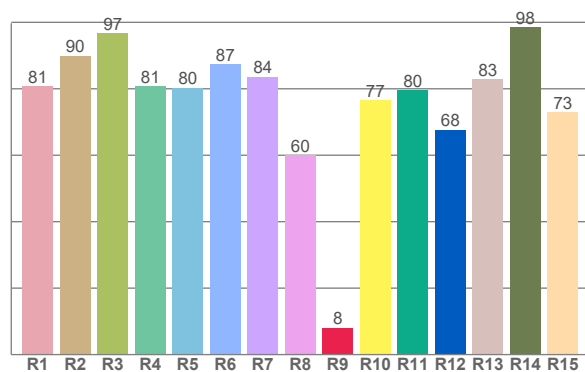




TM30: 84.4



CRI: 82.4 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.7	90.0	96.8	80.8	80.3	87.3	83.7	60.0	8.1	76.6	79.6	67.6	82.9	98.4	73.0

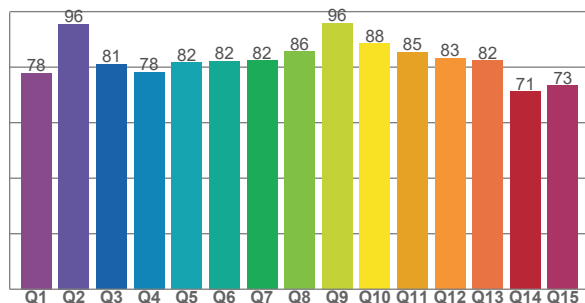
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.1	81.2	77.3	88.0	92.5	92.5	86.8	92.4	88.3	82.0	79.8	84.5	88.5	80.9	79.6	78.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.9	95.5	81.0	78.2	81.6	82.2	82.3	85.6	96.0	88.5	85.4	83.3	82.4	71.2	73.4

CQS: 81.6



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3003 K	82.4	8.1	84.4	96.3	81.6	0.437	0.405	0.250	0.348	0.0004

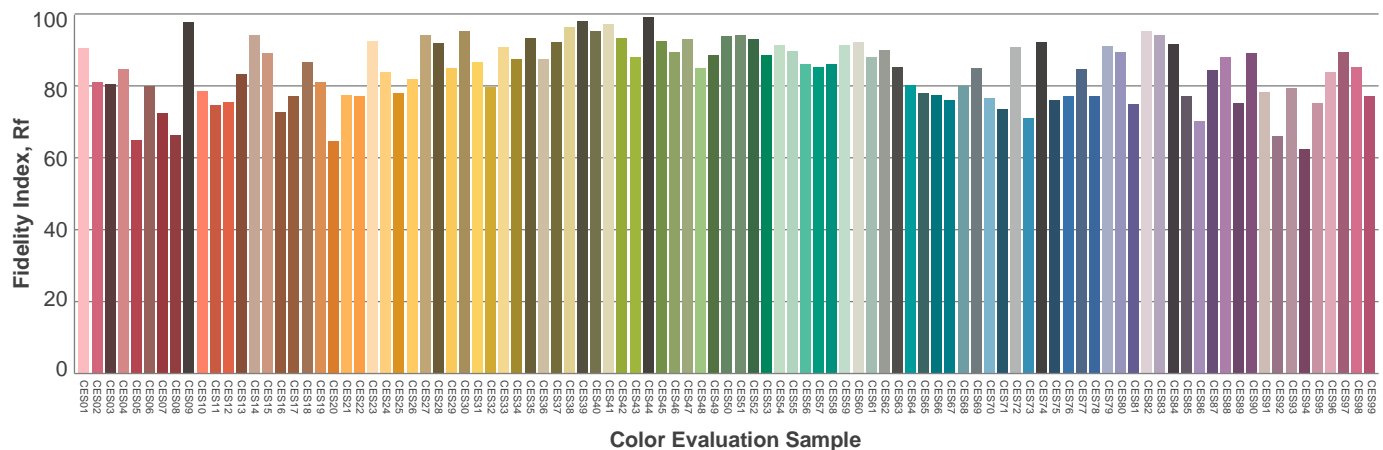
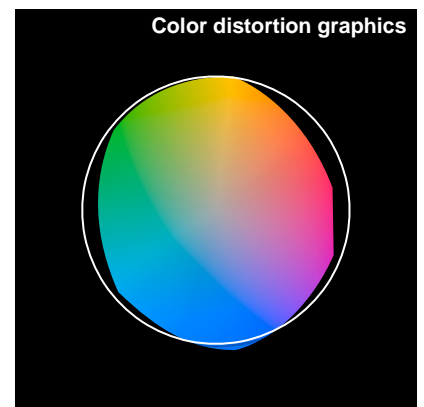
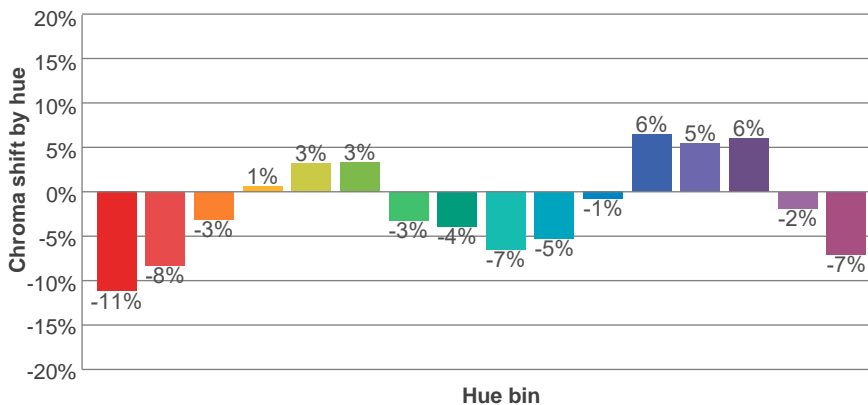
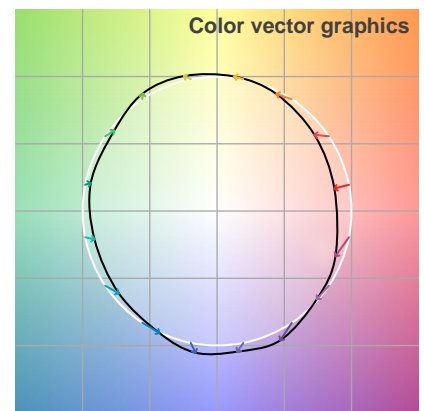
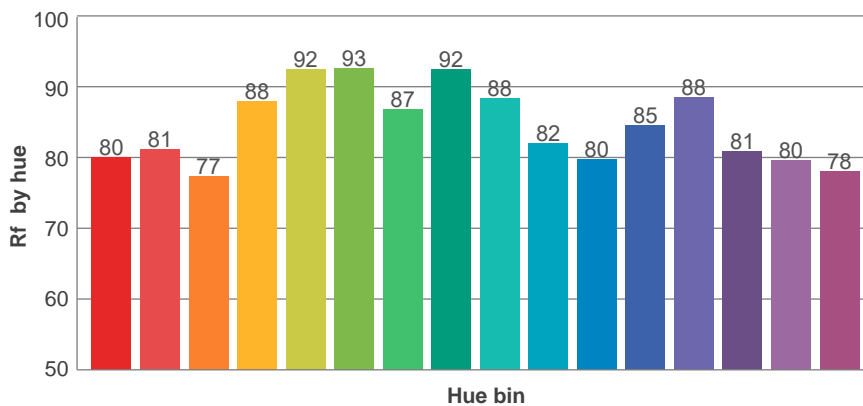
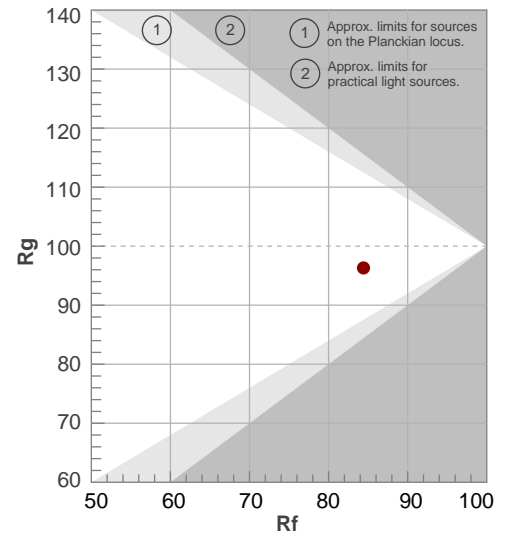
Rf 84.4

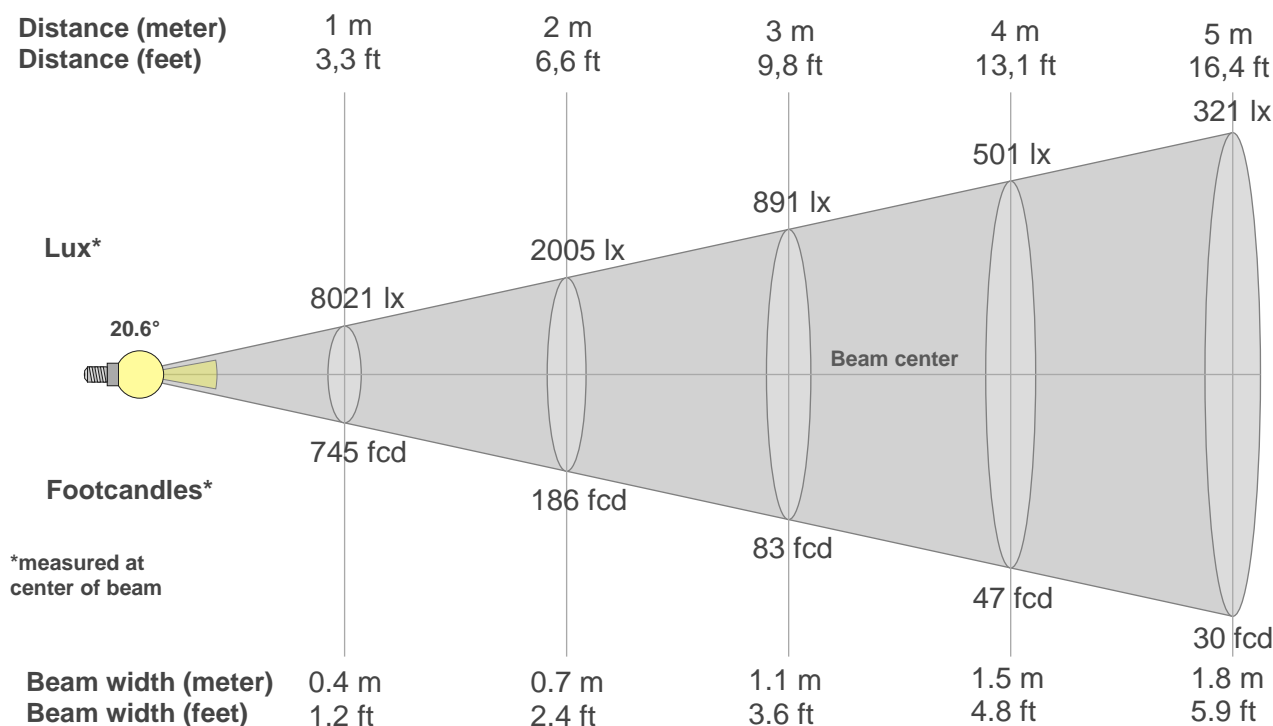
Fidelity index Rf

Rg 96.3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-1%
2	81	-8%	7%
3	77	-3%	12%
4	88	1%	7%
5	92	3%	5%
6	93	3%	-3%
7	87	-3%	-7%
8	92	-4%	-2%
9	88	-7%	3%
10	82	-5%	10%
11	80	-1%	15%
12	85	6%	5%
13	88	5%	-6%
14	81	6%	-14%
15	80	-2%	-13%
16	78	-7%	-16%





Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
8021lx	2005lx	891lx	501lx	321lx	223lx	164lx	125lx	99lx	80lx	66lx	56lx	47lx	41lx	36lx	31lx	28lx	25lx	22lx	20lx
745.2fcd	186.3fcd	82.8fcd	46.6fcd	29.8fcd	20.7fcd	15.2fcd	11.6fcd	9.2fcd	7.5fcd	6.2fcd	5.2fcd	4.4fcd	3.8fcd	3.3fcd	2.9fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8021	7820	7286	6398	5318	4178	3114	2247	1647	1274	1030	872	769	706	661	628	592	532	433	319
100%	97%	91%	80%	66%	52%	39%	28%	21%	16%	13%	11%	10%	9%	8%	8%	7%	7%	5%	4%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8021	7817	7288	6452	5360	4193	3130	2269	1649	1237	1009	860	761	694	648	616	580	512	412	292
100%	97%	91%	80%	67%	52%	39%	28%	21%	15%	13%	11%	9%	9%	8%	8%	7%	6%	5%	4%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8021	7856	7331	6501	5402	4189	3062	2147	1508	1129	924	797	715	662	630	605	559	481	375	253
100%	98%	91%	81%	67%	52%	38%	27%	19%	14%	12%	10%	9%	8%	8%	8%	7%	6%	5%	3%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8021	7890	7377	6501	5406	4202	3040	2097	1512	1142	920	791	714	670	637	607	560	483	378	263
100%	98%	92%	81%	67%	52%	38%	26%	19%	14%	11%	10%	9%	8%	8%	8%	7%	6%	5%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.6°	44.9°	78.9°	99.8%	99.4%